SB 743.

VMT Decisions for Lead Agencies

VMT Decisions to Align Measurement of Transportation Impacts with Sustainability Goals

Daniel Rubins, PE

Outline.

- 1. Change
- 2. Methods
- 3. Thresholds
- 4. Mitigation
- 5. Involvement

Change NEW LAWS

SB 743

AB 417

AB 2245

SB 226

AB 1358

SB 375

SB 97

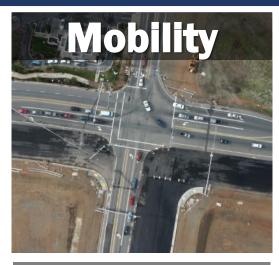
AB 32

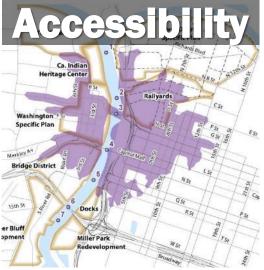
+10 California Climate change Executive Orders since 2004

Change SB 743 LEGISLATIVE INTENT

- (1) Ensure that the environmental impacts of traffic, such as noise, air pollution, and safety concerns, continue to be properly addressed and mitigated through the California Environmental Quality Act.
- (2) More appropriately balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of greenhouse gas emissions.

Change impact analysis & mitigation



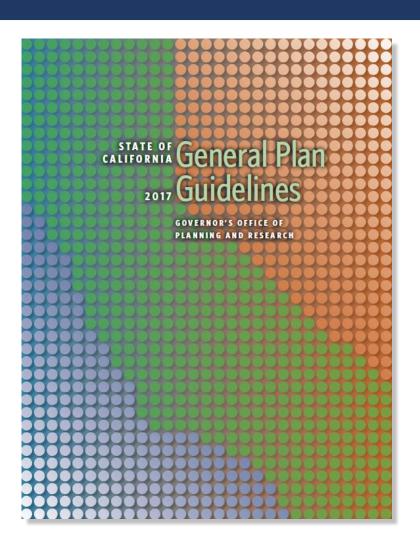




What SB 743 Does Do for EIRs

- Eliminates LOS/Delay <u>as</u>
 <u>a significance threshold</u>
- Adds VMT <u>as a</u>
 <u>significance threshold</u>

Change TRANSPORTATION PLANNING



What SB 743 Does Not Do...

No change to general plans, traffic impact fee programs, State Constitution, subdivision map act, etc.

Change.

September 2013

– Governor

Signed Bill

December 2018

- OPR Finalized
Guidelines

December 2018

- Natural
Resources
Agency Updated
CEQA Guidelines

July 2020 - Optin Period for Implementation

Decisions.

CEQA Guidelines – Expectations for Environmental Impact Analysis

- § 15003 (f) = fullest possible protection of the environment...
- § 15003 (i) = adequacy, completeness, and good-faith effort at full disclosure...
- § 15125 (c) = the eir must demonstrate that the significant environmental impacts of the proposed project were adequately investigated...
- § 15144 = an agency must use its best efforts to find out and disclose...
- § 15151 = sufficient analysis to allow a decision which intelligently takes account of environmental consequences...

Decisions.

1. VMT Methods

- Model/Tool
- Screening
- VMT Accounting

2. Thresholds

- Project
- Cumulative

3. Mitigation

- Feasible Mitigation
- Limitations of TDM

TECHNICAL ADVISORY

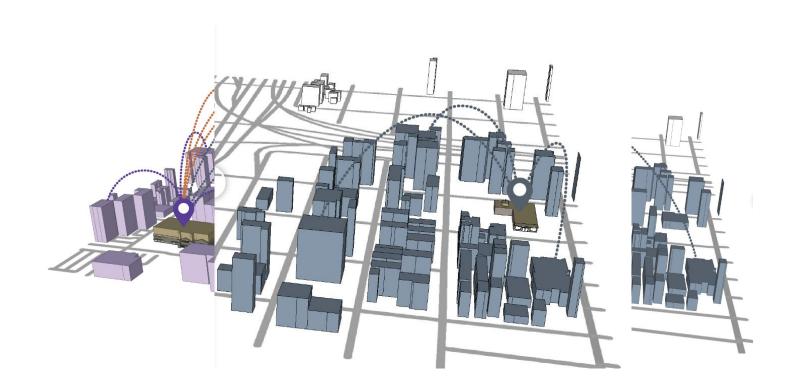
ON EVALUATING TRANSPORTATION IMPACTS IN CEOA



December 2018

Decisions WHAT IS VMT?

Project Generated VMT vs Project Effect on VMT



Decisions Partial OR COMPLETE VMT

	VMT Required in Analysis SB 743			
Vehicle Trip Type	AQ	GHG	Energy	Transportation
Residential Project				
Home-based work	\checkmark	✓	✓	✓
Home-based other	\checkmark	✓	\checkmark	\checkmark
Non-home-based	\checkmark	\checkmark	✓	
Office Project				
Home-based work	\checkmark	\checkmark	\checkmark	\checkmark
Visitor	\checkmark	✓	\checkmark	
Delivery	\checkmark	\checkmark	\checkmark	
Maintenance/Security	\checkmark	\checkmark	\checkmark	

Methods MODELS

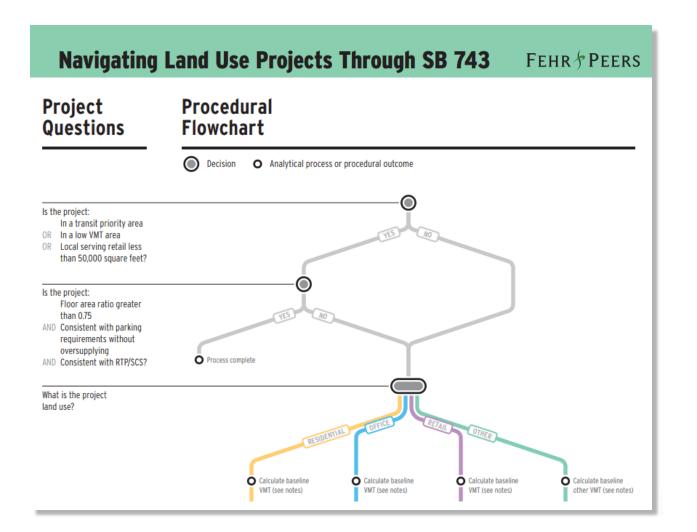
 Regional Travel Model, Local Model, and Non-Model Accounting Method







Methods LAND USE SCREENING



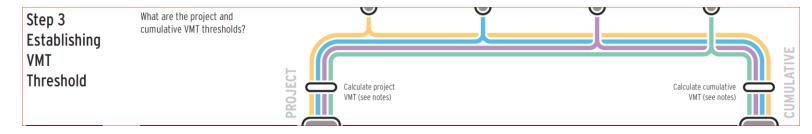
Methods TRANSPORTATION SCREENING

Navigating Transportation Projects Through SB 743 FEHR PEERS OPR **Project Procedural** Steps **Questions Flowchart** Analytical process or procedural outcome Step 1 Is the project type: Screening OR Active transportation OR One of the road project types on page III:27 of the **OPR Technical Advisory?** Does substantial evidence exist to support a finding that the project will not generate new VMT? O Process complete

Thresholds.

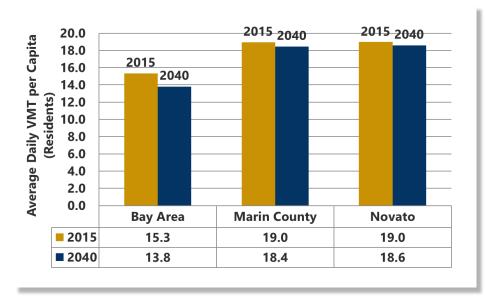
Establishing VMT Threshold(s)

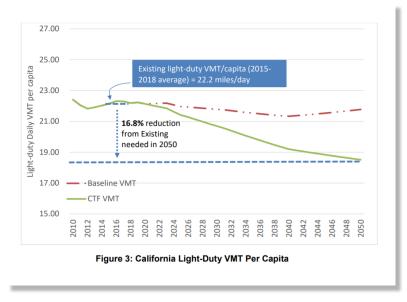
- Lead agency discretion
- What is acceptable vs. unacceptable VMT when viewed solely through a transportation lens?
- Multiple options depending on...
 - how VMT reduction is valued by lead agency
 - how VMT reduction is addressed in air quality, energy, and GHG impact analysis
 - o court decisions



Thresholds.

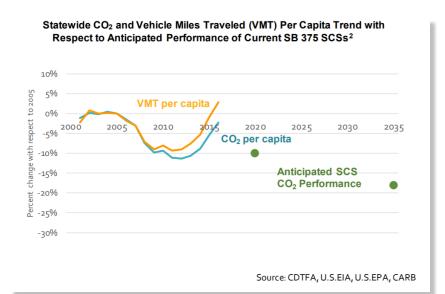
Lead Agency Discretion



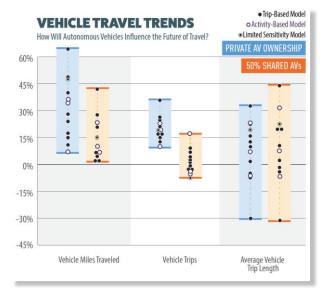


Thresholds.

Other Substantial Evidence



Source: https://ww2.arb.ca.gov/sites/default/files/2018-11/Final2018Report SB150 112618 02 Report.pdf



Source: http://www.fehrandpeers.com/autonomous-vehicle-research/

Thresholds opr GUIDANCE

For transportation projects:

- Bicycle, pedestrian, and transit projects are presumed to not increase VMT
- Projects that expand roadway capacity are considered to have potential to cause induced demand; short-term and long-term VMT effects should be evaluated
 - Thresholds of significance not specified

Mitigation.

Types of VMT Reduction Strategies

- Built Environment
 - Is changing the project land use or transportation network feasible?
- Transportation Demand Management (TDM)
 - Effectiveness depends on project site context and tenants
 - Requires monitoring

Building Operations

Site Design

Location Efficiency

Regional Policies

Regional Infrastructure

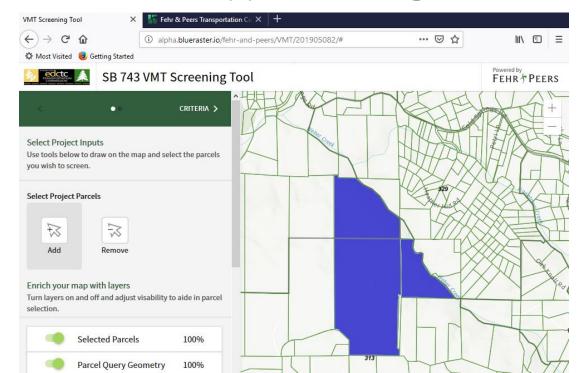
Involvement.

- Curator
 - Provide information.



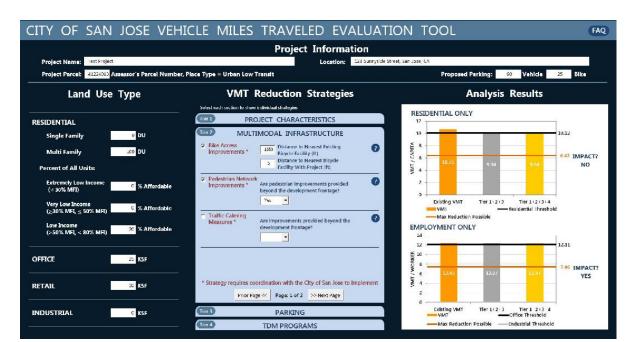
Involvement

- Screening Tool
 - Provide information (1) and screening tool.



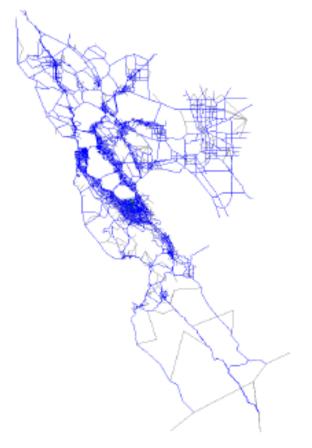
Involvement

- VMT Calculator
 - Provide information (1), screening tool (2), and project generated VMT calculations and reductions.



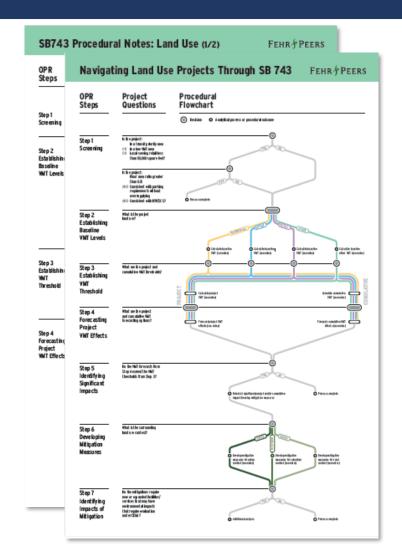
Involvement

- VMT Evaluator
 - Provide information (1)
 - Screening tool (2)
 - VMT calculations and reductions (3)
 - Analyze project effects on VMT

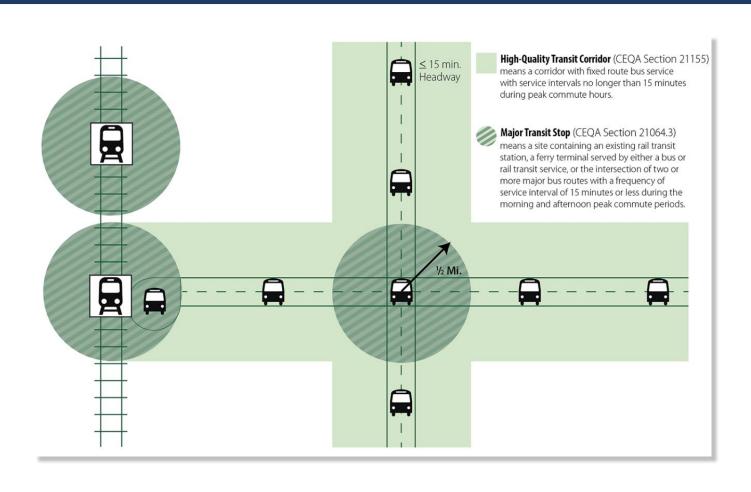


FEHR PEERS

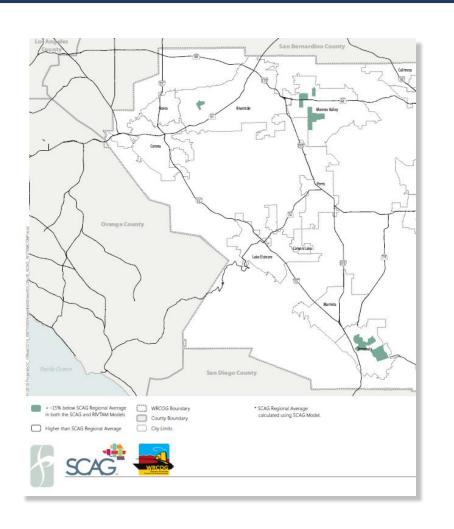
Questions.

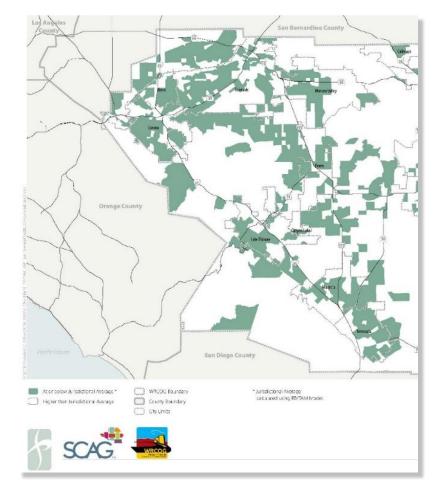


Methods TPA SCREENING

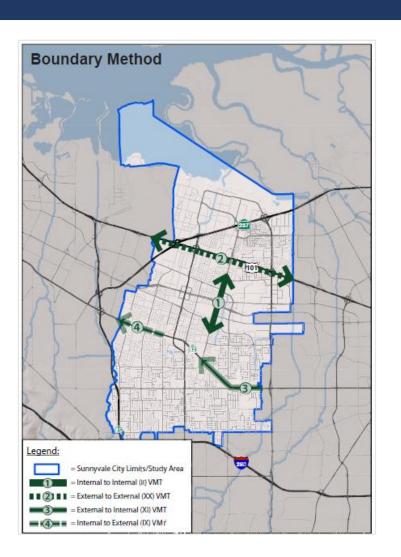


Methods LOW VMT AREA





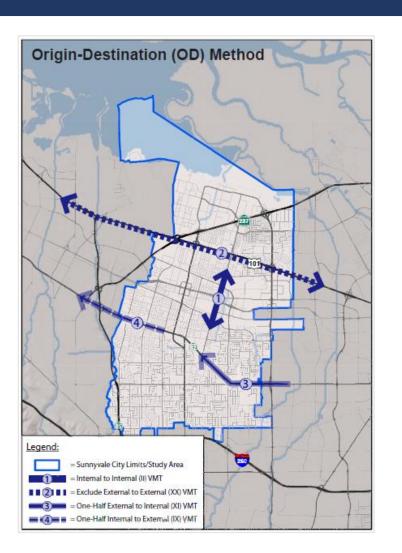
Methods VMT ACCOUNTING



Geographic Boundary VMT Accounting Method

- Boundary VMT = 2,090,010 daily VMT (weekday)
- Through traffic is 44 percent of the VMT boundary method estimate

Methods VMT ACCOUNTING

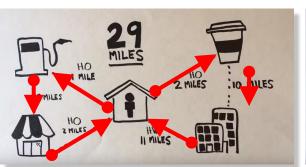


Origin-Destination (OD) Shared Accounting VMT Method

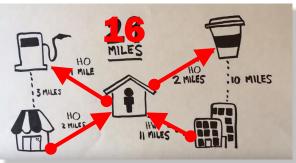
- OD VMT = 2,459,090 daily VMT (weekday)
- Boundary = 2,090,010 daily VMT (weekday)

Methods TOTAL OR PARTIAL

Household Generated VMT



Home-Based Generated VMT



Home-Based Work Generated VMT



Mitigation.

Feasible Mitigation

- New ARB research on VMT reduction strategies
 - Tenant Dependent
- Project vs Program approach
- Fee Program

